

ADHESIVE STRIP FOR SUSPENSION

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an adhesive strip, and more particularly to an adhesive strip for use on flat upright surfaces to detachably suspend objects in a conventional way.

2. Description of Related Art

To decorate an area, display a collection or store items, people usually suspend objects such as clocks, paintings, ornaments or remote controls on walls or other upright surfaces. Basically, three types of suspension means are used to secure objects on desired places.

1. Hooks or nails:

The most conventional way to hang items is attaching hooks or nails on the flat surfaces and hang the item with a hook, a hole or an eye on the attached hooks or nails. However, attaching hooks to and nailing nails into the surface is troublesome and inevitably destroys the smooth surface. Additionally, the objects suspended on the hooks or nails must have a lip, hook, eye or hanger wire to correspond to the hooks or nails.

2. Glue or tape:

Using glue or tape to stick objects on flat surfaces is more convenient than nailing. However once attached, the objects cannot be readily detached from the flat surface. Therefore, using glue or adhesive tape is not suitable for objects used or changed often.

3. Baskets or racks:

Although objects can be readily removed from the baskets or racks, attaching

1 the baskets and racks to the surface is also troublesome. Besides, baskets or racks are an
2 additional expense for decoration and waste more space in rooms.

3 To obviate or mitigate the problems with the conventional means of suspending
4 objects on upright surfaces, the present invention provides an adhesive strip that is
5 convenient to use and makes detaching the suspended objects easy.

6 SUMMARY OF THE INVENTION

7 The main objective of the invention is to provide an adhesive strip that has a
8 simple structure and is convenient to use.

9 Other advantages and novel features of the invention will become more apparent
10 from the following detailed description when taken in conjunction with the
11 accompanying drawings.

12 BRIEF DESCRIPTION OF THE DRAWINGS

13 Fig. 1 is a perspective view of an adhesive strip for suspension in accordance
14 with the present invention;

15 Fig. 2 is an enlarged cross sectional side plan view of the adhesive strip along
16 part of line 2-2 in Fig. 1;

17 Fig. 3 is an operational perspective view of the adhesive strip in Fig. 1 used with
18 a remote control;

19 Fig. 4 is a cross sectional side plan view of the adhesive strip along line 4-4 in
20 Fig. 3;

21 Fig. 5 is a perspective view of one embodiment of the adhesive strip, wherein the
22 adhesive strip has fins formed in parallel with a short edge;

23 Fig. 6 is a cross sectional side plan view of one embodiment of the fins the
24 adhesive strip in accordance with the present invention, wherein each fin have an

enlarged head;

Fig. 7 is a cross sectional side plan view of another embodiment of the fins the adhesive strip in accordance with the present invention, wherein each fin have a cap-head; and

Fig. 8 is a cross sectional side plan view of another embodiment of the fins the adhesive strip in accordance with the present invention, whêrein each fin has a saw-toothed contact face.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference to Figs.1 and 2 an adhesive strip (10) for suspension in accordance with the present invention is comprises a base plate (11), multiple fins (12), an adhesive layer (13) and a protective layer (14).

The base plate (11) has a long side and a short side and is made of flexible material such as rubber or plastic so that the base plate (11) can be cut into pieces of desired sizes when used. The base plate (11) is also selectively molded in different shapes and different colors to enhance the attractiveness of the adhesive strip (10).

The fins (12) are formed in parallel with the long side of the base plate (11) and are formed integrally from the base plate (11). Each fin (12) has a rough contact face (122) formed on an inner face of the fin (12), and all fins (12) are inclined in parallel in a single direction at a specific included angle (α) with the base plate (11), wherein the included angle (α) is less than 90° . The included angle (α) of the embodiment shown in Figs. 1 and 2 is 30° .

The adhesive layer (13) is made of glue or double sided tape and is attached to the side of the base plate (11) opposite to the fins (12) so that the adhesive strip (10) can attach to flat surfaces. Additionally, the protective layer (14) covers the adhesive layer

1 (13) before the adhesive strip (10) is used to prevent the adhesive strip (10) from sticking
2 to other objects. Moreover, the protective layer (14) is easily separated from the adhesive
3 layer (13) to make the adhesive strip convenient to use.

4 With reference to Figs. 3 and 4, objects with which the adhesive strip (10) are
5 used have a front and a back with a flat surface on the back. When the adhesive strip (10)
6 is used, two pieces of the adhesive strip (10A, 10A') are needed to engage each other. A
7 first adhesive strip (10A) of a proper length is attached to a wall or other vertical surface
8 with first fins (12A) on the first adhesive strip (10A) directed upward. A second
9 adhesive strip (10A') of a proper length is attached to the back of an object to be hung up
10 such as a remote control (50), wherein second fins (12A') on the second adhesive strip
11 (10A') are directed downward. Therefore, the first adhesive strip (10A) and the second
12 adhesive strip (10A') can engage each other by hooking the first fins (12A) and the
13 second fins (12A') together. Then, a person can readily remove the remote control (50)
14 from the wall easily by separating the second fins (12A') from the first fins (12A) when
15 lifting up the remote control (50).

16 With reference to Figs. 5-8, the arrangement and structure of the fins (12) of the
17 adhesive strip (10) can be changed to improve the versatility of the strip (10) and the
18 holding power of the fins (12). With reference to Fig. 5, another embodiment of the
19 adhesive strip (10B) has the fins (12B) formed in parallel with the short edge of adhesive
20 strip (10B). This would allow a user to vary the height of the object on the vertical
21 surface.

22 With reference to Fig. 6, another embodiment of the adhesive strip (10) has an
23 enlarged head (124) formed on the distal end of each fin (12C). The shape of the
24 enlarged head (124) is complementary to a corresponding fin (12C') of the

1 corresponding adhesive strip (10C') so that the paired adhesive strips (10C, 10C') have
2 excellent holding efficiency to each other.

3 With reference to Fig. 7, each fin (12D) of another embodiment of the adhesive
4 strip (10) has an enlarged cap-head (126) formed on the distal end of each fin (12D). The
5 enlarged cap-head (126) will hook with a corresponding cap-head fin (12D') on the
6 corresponding adhesive strip (10D'). The cap-head (126) of the fin (12D) provides an
7 excellent holding effect to the paired adhesive strips (10D, 10D') because of a straight
8 blocking surface (127) and that the adhesive strip (10D) has a large included angle (β ,
9 90°) between each fin (12D) and the base plate (11).

10 With reference to Fig. 8, each fin (12E) of another embodiment of the strip (10)
11 has a saw-toothed contact face (128) and is complementary to a respective fin (12E') of
12 a corresponding adhesive strip (10E'). The toothed contact face (128) also enhances the
13 holding efficiency of the paired adhesive strips (10E, 10E').

14 The adhesive strip in accordance with the present invention has a simplified
15 structure as described. Even though numerous characteristics and advantages of the
16 present invention have been set forth in the foregoing description, together with details
17 of the structure and function of the invention, the disclosure is illustrative only, and
18 changes may be made in detail, especially in matters of shape, size, and arrangement of
19 parts within the principles of the invention to the full extent indicated by the broad
20 general meaning of the terms in which the appended claims are expressed.